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# CORE Scholar Wright State University's Institutional Repository

Jane Wildermuth, Elisabeth Shook, & Andrew Harris – Digital Services, University Libraries

# What is an Institutional Repository?

- An IR is an online repository for collecting, preserving, and disseminating the scholarly, historical, and administrative output of an institution.

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CORE Scholar is an institutional repository sponsored by Wright State University Libraries and managed by the Digital Services department. The institutional repository collects and makes available the scholarly output of WSU faculty, staff, and students as well as local, regional, and WSU heritage material. The goal of CORE Scholar is to provide open access and worldwide exposure to Wright State's unique research and collections.

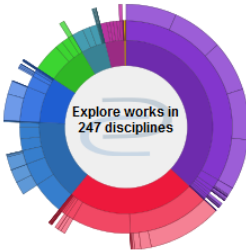
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Colorful Revision: Color-Coded Comments Connected to Instruction, Nancy Mack

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Bullying Reconsidered: Educating for Emotional Literacy, Nancy Mack

English Journal, Nancy Mack

Submissions from 2011

Consolation, Affirmation, and Convention: The Popular Reception of American Naturalist Texts, Carol Loranger

A Place for Dialogue Among Home and Academic Voices: Multigenre Writing, Nancy Mack

Writing Multiple Genres: Connecting Local and Academic Knowledge, Nancy Mack

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The Poet as Botanist by M. M. Mahood (Review), Barry Milligan

Mocking Discourse in Rhetoric: Parody and Pedagogy, David Seitz

Writing Place-Based Genres: Community Bonds, Local History, and Global Influences, David Seitz

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My main interest is in the distribution and abundance of species over space and time. Because it is at the heart of the species-environment relationship and thus ecology and it is vital to conservation biology and planning. Understanding species distributions in a causal manner is vital for threatened species management, climate change planning and protected area design. My research combines high-level ecological theory and spatial analysis to address fundamental questions in ecology and to improve tools for applied ecology and conservation biology.

Within the field of species distribution modeling I work on topics such as statistics (especially machine learning techniques), data assembly and management (ecological data sets and remote sensing data), effects of climate and land-use change on species distributions, and spatial patterns and mechanisms underlying species distributions. Population dynamics and dispersal play a prominent role in my investigations of mechanisms underlying distributions. I also use insights and approaches from community ecology to improve the understanding of distributions.

My lab's research spans from local field experiments to the largest spatial and temporal scales possible (world-wide and hundred thousands of years). Students in my lab and I have worked on plants (e.g. ants), birds (hundreds of species in databases, Marbled Murrelets and Pileated Woodpeckers in the field) and fish (Ohio and world-wide data). However, I'm open to work on any organism that promises to advance our insights in ecology and conservation. We often use advanced data management and analysis techniques implemented in R in our research and use advanced technology in the field.

### Articles

**Q OpenURL** [Testing the Predictive Performance of Distribution Models](#) (with Brian J. McGill), *Oikos* (2013)  
Distribution models are used to predict the likelihood of occurrence or abundance of a species...

**Q OpenURL** [The Interaction Between Propagule Pressure, Habitat Suitability and Density-Dependent Reproduction in Species Invasion](#) (with Robert J. Warren II and Mark A. Bradford), *Oikos* (2012)  
Seedling recruitment limitations create a demographic bottleneck that largely determines the viability and structure of...

**L Link** [Decoupling Litter Barrier and Soil Moisture Influences on the Establishment of an Invasive Grass](#) (with Robert J. Warren II and Mark A. Bradford), *Plant and Soil* (2012)  
Through recruitment, plants establish in novel environments. Recruitment also is the stage where plants undergo...

**Volker Bahn**  
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**Articles**

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A state by year panel is analyzed to simultaneously explore the statistical correlation between state...

**Q OpenURL** [The Relationship Between Regional Economic Conditions and the Severity of Traffic Crashes](#), *Traffic Injury Prevention* (2009)  
**Objectives:**  
To evaluate the relationship between regional economic conditions and the severity of injury suffered...

**Q OpenURL** [Regional Economic Conditions and Crash Fatality Rates – A Cross-County Analysis](#), *Journal of Safety Research* (2008)  
Most studies that evaluate the relationship between economic conditions and traffic fatalities focus on the...

**Q OpenURL** [The Impact of Driver Alcohol Use on Crash Severity: A Crash Specific Analysis](#), *Transportation Research Part E-Logistics and Transportation Review* (2005)  
This study uses a crash specific data set that is supplemented with location based socioeconomic...

**L Link** [Retail Development in Rural Counties: Evidence from the Upper Midwest](#) (with John P. Blair and Manjiang Duan), *The Journal of Regional Analysis and Policy* (2004)  
Concerns have been raised that potential retail activity is being lost in rural areas. This...

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**Reports**

**L Link** [Wright State University Regional Economic Report, Summer 2012](#), *Economics Faculty Publications* (2012)

**Thomas L. Traynor**  
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Dr. Sharmila Mitra Mukhopadhyay is Professor of Materials Science and Engineering and Director of Center for Nanoscale Multifunctional Materials at Wright State University. Her interests are in nano-materials, surface and interface phenomena, and multidisciplinary materials education. She received B.S. and M.S. degrees from Indian Institute of Technology and Ph.D. from Cornell University. She joined the Mechanical and Materials Engineering Department of WSU in 1997 after working as Post Doc. at Rutgers University and Assistant Professor at Politecnico University. At WSU, she is a recipient of the Trustees' Award for Faculty Excellence, which is the highest award given by the university to outstanding Wright State University full-time, fully-affiliated faculty who have demonstrated a sustained and balanced contribution to the teaching, research, and professional service mission of the university. The award is intended to honor those who serve as the most outstanding of role models for all Faculty.

Dr. Mukhopadhyay has published over 120 papers and technical reports and has obtained and directed over 5 million dollars in research funding from federal and state agencies such as NSF, DOE, AFOSR, AFRL, NASA, OBR, EPA, as well as industry. She serves on several boards and review panels of funding agencies, professional organizations, community outreach groups, and scientific journals such as the National Science Foundation, the ASM Dayton Chapter, American Ceramic Society, ISRN-Condensed matter Physics, and Metallurgical Transactions. She has organized and co-organized several national and international symposia, and is past chair of the Electronics Division of American Ceramic Society. She is listed in "Who's Who in the World", "Who's Who in America" and "Who's Who in Science and Engineering", and is an elected Fellow of the American Ceramic Society.

### Articles

**Improved Thermal Response in Encapsulated Phase Change Materials by Nanotube Attachment on Encapsulating Solid** (with I. T. Barney, S. Ganguli, and A. K. Roy), *Journal of Nanotechnology in Engineering and Medicine* (2013)  
This paper demonstrates greatly improved specific power (W/g) for encapsulated phase change materials (EPCM) as...

**Q OpenURL** [Palladium Nanoparticles on Hierarchical Carbon Surfaces: A New Architecture for Robust Nano-Catalysts](#) (with Hema Vijwani), *Applied Surface Science* (2012)  
Surface activity of heterogeneous catalysts can be enhanced if their sizes are reduced to nanometers...

**Q OpenURL** [Specific Surface Area of Hierarchical Graphitic Substrates Suitable for Multifunctional Applications](#) (with Ian T. Barney, Dennis S.R. Lennox, and Steven R. Higgins), *Materials* (2013)

**Sharmila M. Mukhopadhyay**  
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Physics

Interim Department Chair: Doug Petkie

The [Department of Physics](#) at Wright State University is a medium size department, with around 40+ majors, 20+ MS students, 15 faculty and 4 research professors. For undergraduate students, the department provides a wide variety of programs in physics preparing them for either graduate school or for careers. Graduate students can choose either a Master's of Science (Physics) or a Master's in Teaching (Physics), or an interdisciplinary PhD (Biomedical Sciences, Environmental Sciences, Engineering).

The major research areas of the faculty include atmospheric science, biophysics, geophysics, materials science, nanotechnology, and physics education. They study topics as fundamental as chemical reactions in the atmosphere of Mars to topics with societal impact such as the use of T-rays for full-body scanners at airports.

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Neuroscience, Cell Biology & Physiology Faculty Publications

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Submissions from 2013

[Principles of Interneuron Development Learned from Renshaw Cells and the Motoneuron Recurrent Inhibitory Circuit](#), Francisco J. Alvarez, Ana Benito-Gonzalez, and Valerie C. Siembab

[Mechanism of TRPM7 Channel Inhibition by 2-Aminoethyl Diphenyl Borinate \(2-APB\)](#), Rikki Chokshi and J. Ashot Kozak

[Expression of Postsynaptic Ca<sup>2+</sup>-Activated K<sup>+</sup> \(SK\) Channels at C-Bouton Synapses in Mammalian Lumbar  \$\alpha\$ -Motoneurons](#), Adam S. Deardorff, Shannon H. Romer, Zhihui Deng, Katie L. Bullinger, and Paul Nardelli

[Heparan Sulfate-Bound Dimeric IL-2: A Potential Mediator of Renal Ischemic Injury](#), Lauren A. Dixon, John D. Miller, Suzanne E. Clabaugh, Gino C. Liu, Mary F. Stuever, and Lucile E. Wrenshall

[Rabbit Supraspinatus Motor Endplates Are Unaffected by a Rotator Cuff Tear](#), J. Christopher Gayton, L. Joseph Rubino, Mark M. Rich, Mark H. Stouffer, Qingbo Wang, and Gregory P. Boivin

[Activation of Electrogenic K Secretion Requires BK Channels in Guinea Pig Distal Colon](#), Dan R. Halm, Jin Zhang, and Susan T. Halm

[Canonical Bcl-2 Motifs of the Na<sup>+</sup>/K<sup>+</sup> Pump Revealed by the BH3 Mimetic Chelerythrine: Early Signal Transducers of Apoptosis?](#), Peter K. Lauf, Judith Heiny, Jarek Meller, Michael A. Lepera, Leonid Koikov,

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## Wright State University Magazine

Wright State University Magazine, Spring 2014

Office of Marketing, Wright State University



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Thirty-six page issue of the Wright State University Magazine. This magazine is published twice a year and focuses on news related to Wright State alumni, faculty, staff, and friends of the university.

**Date** Spring 2014

**Volume**  
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**Keywords** University publications, Alumni, News, Wright State University News

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### The Cutting Edge Spring 2014

Wright State University Department of Surgery

A twelve page newsletter created by the Department of Surgery documenting current affairs of the department. This issue features a dedication to former faculty Robert Peter Turk, faculty news, a listing of special lectures, clinical news, and more.



### The Cutting Edge Fall 2013

Wright State University Department of Surgery

An eight page newsletter created by the Department of Surgery documenting current affairs of the department. This issue highlights the completion of the School of Medicine's five-year strategic plan, faculty news, updates from the Division of

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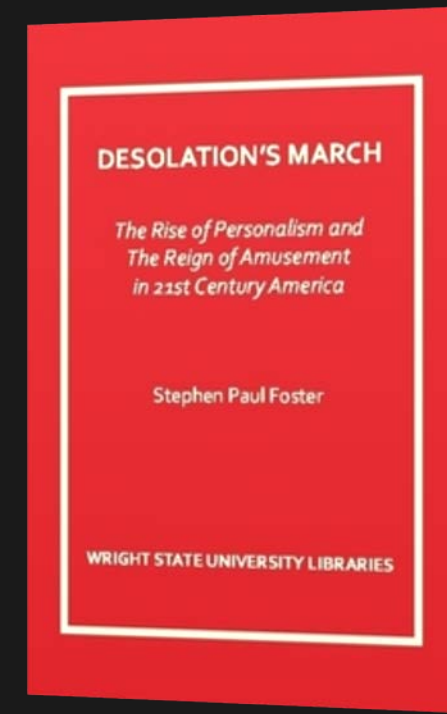
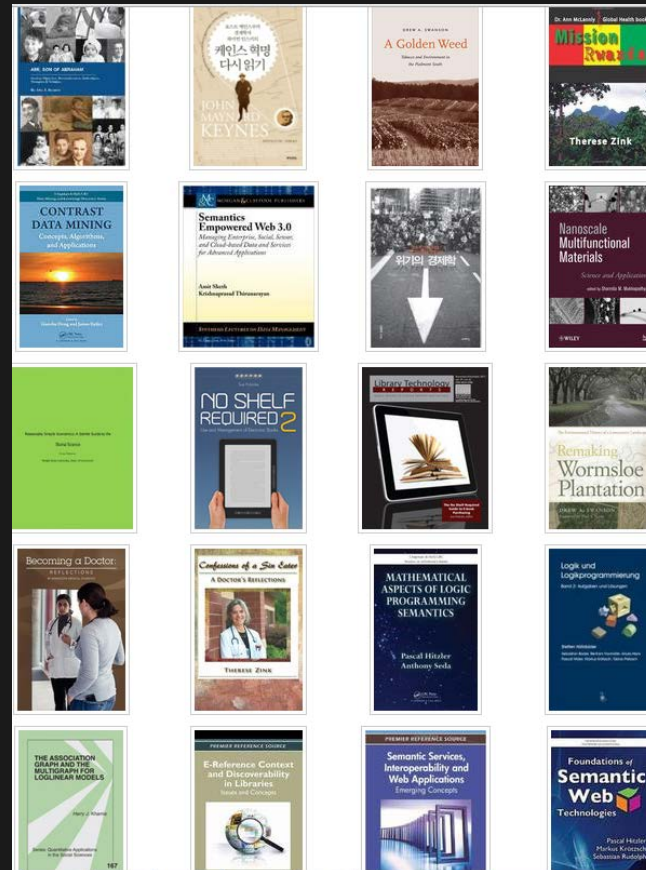
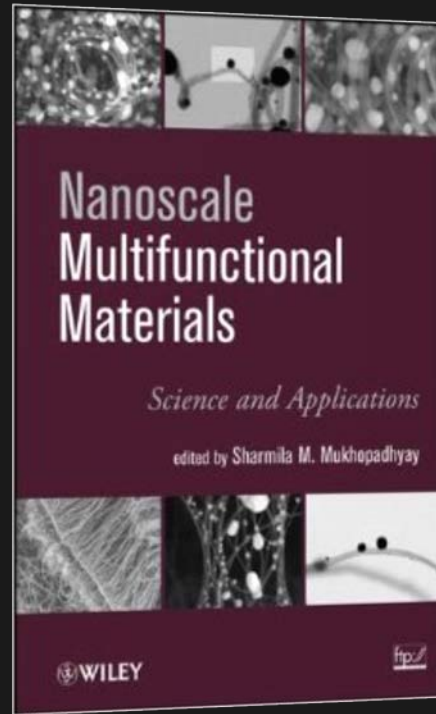
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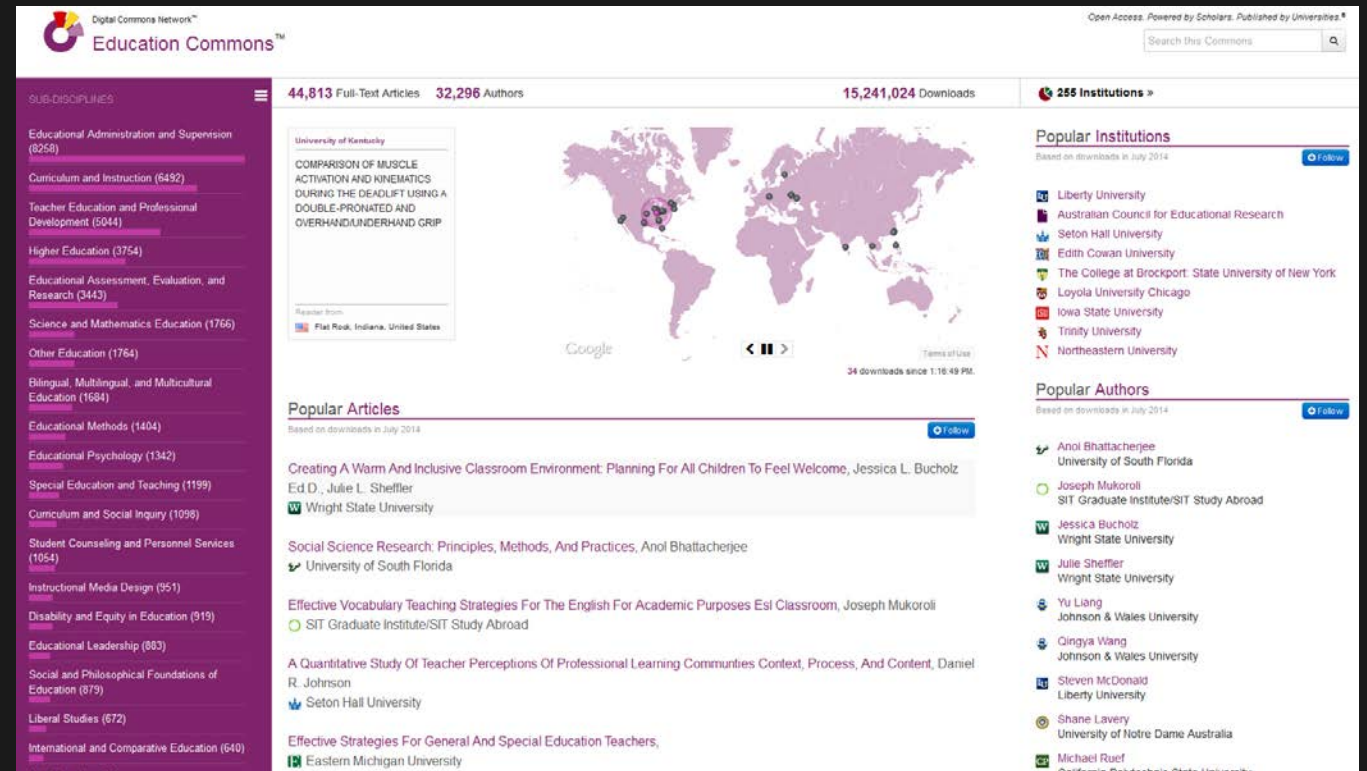
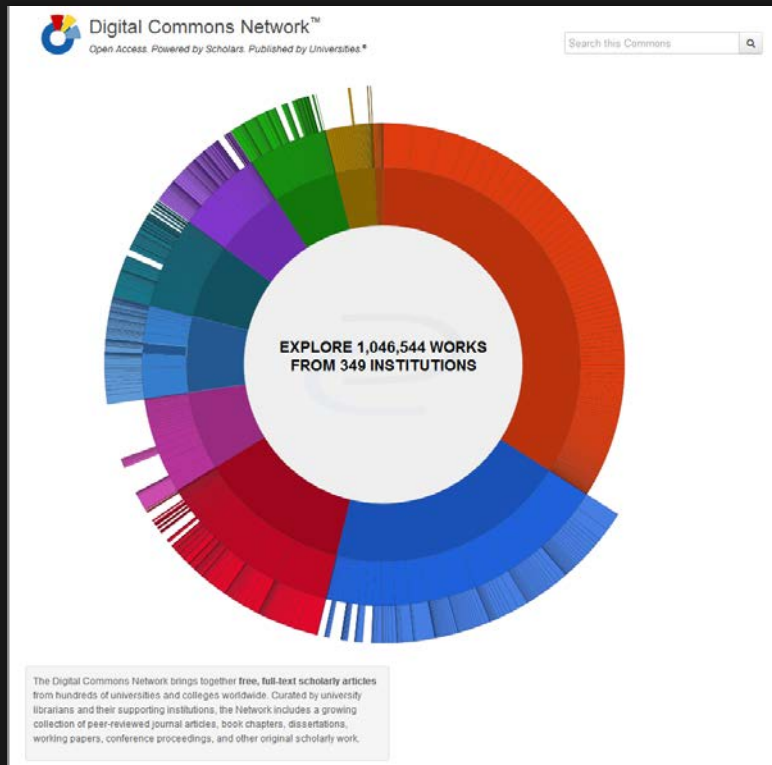


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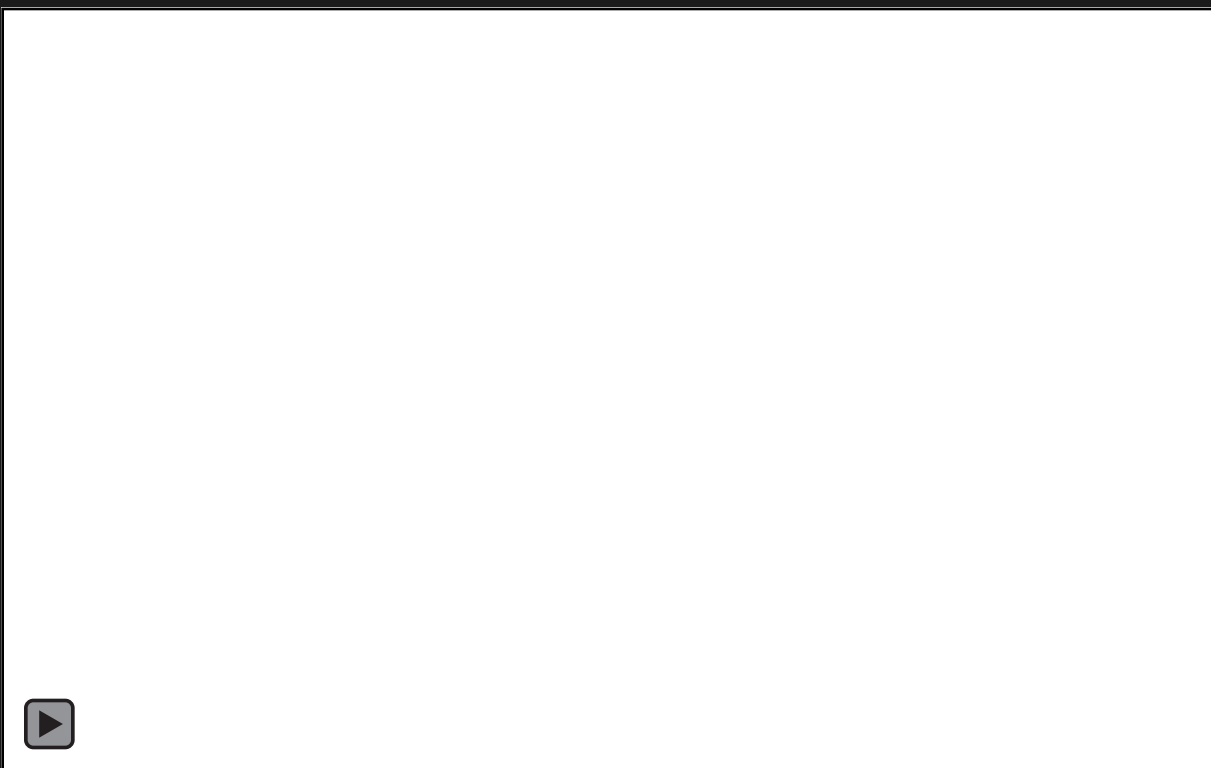
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